

PTO/SB/21 (05-03)


Approved for use through 04/30/2008. OMB 0851-0091

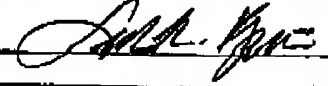
U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

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<h1 style="text-align: center;">TRANSMITTAL FORM</h1> <p style="text-align: center;">(to be used for all correspondence after initial filing)</p>		Application Number	10/091,841
		Filing Date	March 5, 2002
		First Named Inventor	Myeong-Je CHO
		Art Unit	1634
		Examiner Name	J. Switzer
Total Number of Pages in This Submission	25	Attorney Docket Number	416272001410

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form (in duplication - 2 pages) <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input checked="" type="checkbox"/> After Final Action (37 C.F.R. Section 1.116) (22 pages) <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks Facsimile Cover Sheet		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	MORRISON & FOERSTER LLP Ofis Littlefield - Reg. No. 48,751 (Customer No. 20872)
Signature	
Date	April 9, 2004

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, facsimile no. (703) 872-9306 on the date shown below.	
Dated: April 9, 2004	Signature:  (Leah M. Kjellén)

sf-1681206

PTO/5B/17 (01-03)
Approved for use through 04/30/2003. CMB 0651-0032

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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)		378.00	
Application Number		10/091,841	
Filing Date		March 5, 2002	
First Named Inventor		Myeong-Je CHO	
Examiner Name		J. Switzer	
Group Art Unit		1634	
Attorney Docket No.		416272001410	

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 03-1952

Deposit Account Name: Morrison & Foerster LLP

The Commissioner is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,320	1812	2,320	For filing a request for <i>ex parte</i> re-examination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,640*	1805	1,640*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	850	2253	425	Extension for reply within third month	
1254	1,450	2254	725	Extension for reply within fourth month	
1255	1,970	2255	985	Extension for reply within fifth month	
1401	320	2401	160	Notice of Appeal	
1402	320	2402	160	Filing a brief in support of an appeal	
1403	290	2403	140	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,300	2453	650	Petition to revive - unintentional	
1501	1,900	2501	950	Utility issue fee (or release)	
1502	470	2502	235	Design issue fee	
1603	630	2503	315	Plant issue fee	
1480	130	1480	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(e)	
1808	180	1808	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.128(a))	
1810	750	2810	375	For each additional invention to be examined (37 CFR 1.128(b))	
1801	750	2801	375	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify):

*Reduced by Basic Filing Fee Paid

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1001	750	2001	375	Utility filing fee	
1002	330	2002	165	Design filing fee	
1003	580	2003	290	Plant filing fee	
1004	750	2004	375	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$)

0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
43	48 =	0	0.00
Independent Claims	17	9	378.00
Multiple Dependent		140	0.00

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1202	18	2202	9	Claims in excess of 20	
1201	84	2201	42	Independent claims in excess of 3	
1203	280	2203	140	Multiple dependent claim, if not paid	
1204	84	2204	42	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$)

378.00

** or number previously paid, if greater; For Reissues, see above

SUBMITTED BY

Name (Print/Type): Otis Littlefield

Signature:

Registration No. (Attorney/Agent): 48,751

Complete (if applicable)

Telephone: (415) 268-6846

Date: April 9, 2004

sf-1681401

PTC/SB/17 (01-03)
Approved for use through 04/30/2003. OMB 0851-0032

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) **378.00**

Complete if Known

Application Number 10/091,841
Filing Date March 5, 2002
First Named Inventor Myeong-Je CHO
Examiner Name J. Switzer
Group Art Unit 1634
Attorney Docket No. 416272001410

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number 03-1952
Deposit Account Name Morrison & Foerster LLP

The Commissioner is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description	Fee Paid
1001	2001	750	375	Utility filing fee	
1002	2002	330	165	Design filing fee	
1003	2003	520	260	Plant filing fee	
1004	2004	750	375	Reissue filing fee	
1005	2005	160	80	Provisional filing fee	
SUBTOTAL (1) (\$)					0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
43	43	0	0.00
Independent Claims	17	9	378.00
Multiple Dependent		140	0.00

Large Entity **Small Entity**

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	84	2201	42	Independent claims in excess of 3
1203	280	2203	140	Multiple dependent claim, if not paid
1204	84	2204	42	Reissue independent claims over original patent
1205	18	2205	9	Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$) 378.00				

***or number previously paid, if greater; For Reissues, see above*

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Description
1051	2051	130	65	Surcharge - late filing fee or oath
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1812	2520	2,520		For filing a request for <i>ex parte</i> reexamination
1804	2804	820	880	Requesting publication of SIR prior to Examiner action
1805	2805	1,840	1,940	Requesting publication of SIR after Examiner action
1251	2251	110	55	Extension for reply within first month
1252	2252	430	210	Extension for reply within second month
1253	2253	950	475	Extension for reply within third month
1254	2254	1,450	725	Extension for reply within fourth month
1255	2255	1,870	985	Extension for reply within fifth month
1401	2401	320	160	Notice of Appeal
1402	2402	320	160	Filing a brief in support of an appeal
1403	2403	280	140	Request for oral hearing
1451	2451	1,510	55	Petition to institute a public use proceeding
1452	2452	110	55	Petition to revive - unavalable
1453	2453	1,300	650	Petition to revive - unintentional
1501	2501	1,300	650	Utility issue fee (or reissue)
1502	2502	470	235	Design issue fee
1503	2503	630	315	Plant issue fee
1480	2480	130	130	Petitions to the Commissioner
1807	2807	50	50	Processing fee under 37 CFR 1.17(q)
1808	2808	180	180	Submission of Information Disclosure Stmt
8021	28021	40	40	Recording each patent assignment per property (times number of properties)
1809	2809	750	375	Filing a submission after final rejection (37 CFR 1.129(a))
1810	2810	750	375	For each additional invention to be examined (37 CFR 1.129(b))
1801	2801	750	375	Request for Continued Examination (RCE)
1802	2802	900	900	Request for expedited examination of a design application
Other fee (specify)				
*Reduced by Basic Filing Fee Paid				
SUBTOTAL (3) (\$) 0.00				

SUBMITTED BY

Name (Print/Type) Otis Littlefield Registration No. (Attorney/Agent) 48,751 Telephone (415) 268-6846

Signature *O Littlefield* Date April 9, 2004

sf-1681401

MORRISON & FOERSTER LLP

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San Francisco, California 94105-2482
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To: U.S. Patent and Trademark Office
MS AF Group Art Unit 1634 (Examiner J. Switzer)

Facsimile: (703) 872-9306

From: Otis Littlefield (Reg. No. 48,751)

Date: April 9, 2004

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AMENDMENT AFTER FINAL ACTION (37 C.F.R. SECTION 1.116)

Re: U.S. Patent Application Serial No. 10/091,841
For: BARLEY GENE FOR THIOREDOXIN AND NADP-THIOREDOXIN
REDUCTASE
Filed: March 5, 2002
By: Myeong-Je CHO et al.
Group Art Unit: 1634
Examiner: J. Switzer
Our reference: 416272001410

Documents Enclosed:

1. Transmittal (1 page)
2. Fee Transmittal (in duplicate - 2 pages)
3. Amendment After Final Action (37 C.F.R. Section 1.116) (22 pages).

Comments:

Please see attached documents. Thank you.

APR. 9. 2004 4:55PM

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NO. 836

P. 5

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Dated: April 9, 2004 Signature:  (Leah M. Kjellén)

PATENT
Docket No. 416272001410

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Myeong-Je CHO et al.

Serial No.: 10/091,841

Filing Date: March 5, 2002

For: BARLEY GENE FOR THIOREDOXIN
AND NADP-THIOREDOXIN REDUCTASE

Examiner: J. Switzer

Group Art Unit: 1634

AMENDMENT UNDER 37 C.F.R. §1.116

MS AF
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

This is in response to the final Office Action dated February 9, 2004, for which a response is due on May 9, 2004. This response is filed within two months of the issuance of the final Office Action and therefore qualifies for expedited review. Accordingly, this response is timely filed. Reconsideration and allowance of the pending claims, as amended, in light of the remarks presented herein are respectfully requested.

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 12 of this paper.